

RAW SEQUENCE LISTING

**The Biotechnology Systems Branch of the Scientific and Technical
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Application Serial Number: 10/566,878
Source: IFWO
Date Processed by STIC: 09/27/2006

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IFWO

RAW SEQUENCE LISTING

DATE: 09/27/2006

PATENT APPLICATION: US/10/566,878

TIME: 14:36:40

Input Set : A:\Sequence Listing of 10_566_878.txt

Output Set: N:\CRF4\09272006\J566878.raw

4 <110> APPLICANT: VAN ES, Andries Johannes Jozef
 5 BOUWSTRA, Jan Bastiaan
 6 TODA, Yuzo
 8 <120> TITLE OF INVENTION: Use of gelatin-like proteins as stabiliser
 10 <130> FILE REFERENCE: NY060155VANES
 12 <140> CURRENT APPLICATION NUMBER: US 10/566,878
 C--> 13 <141> CURRENT FILING DATE: 2006-02-02
 15 <150> PRIOR APPLICATION NUMBER: PCT/NL2004/00552
 16 <151> PRIOR FILING DATE: 2003-08-04
 18 <150> PRIOR APPLICATION NUMBER: EP 03077451.7
 19 <151> PRIOR FILING DATE: 2003-08-05
 22 <160> NUMBER OF SEQ ID NOS: 2
 24 <170> SOFTWARE: PatentIn version 3.1
 26 <210> SEQ ID NO: 1
 27 <211> LENGTH: 1464
 28 <212> TYPE: PRT
 29 <213> ORGANISM: unknown
 31 <220> FEATURE:
 32 <223> OTHER INFORMATION: COL1A1
 34 <400> SEQUENCE: 1
 36 Met Phe Ser Phe Val Asp Leu Arg Leu Leu Leu Leu Ala Ala Thr
 37 1 5 10 15
 40 Ala Leu Leu Thr His Gly Gln Glu Glu Gly Gln Val Glu Gly Gln Asp
 41 20 25 30
 44 Glu Asp Ile Pro Pro Ile Thr Cys Val Gln Asn Gly Leu Arg Tyr His
 45 35 40 45
 48 Asp Arg Asp Val Trp Lys Pro Glu Pro Cys Arg Ile Cys Val Cys Asp
 49 50 55 60
 52 Asn Gly Lys Val Leu Cys Asp Asp Val Ile Cys Asp Glu Thr Lys Asn
 53 65 70 75 80
 56 Cys Pro Gly Ala Glu Val Pro Glu Gly Glu Cys Cys Pro Val Cys Pro
 57 85 90 95
 60 Asp Gly Ser Glu Ser Pro Thr Asp Gln Glu Thr Thr Gly Val Glu Gly
 61 100 105 110
 64 Pro Lys Gly Asp Thr Gly Pro Arg Gly Pro Arg Gly Pro Ala Gly Pro
 65 115 120 125
 68 Pro Gly Arg Asp Gly Ile Pro Gly Gln Pro Gly Leu Pro Gly Pro Pro
 69 130 135 140
 72 Gly Pro Pro Gly Pro Pro Gly Pro Pro Gly Leu Gly Gly Asn Phe Ala
 73 145 150 155 160
 76 Pro Gln Leu Ser Tyr Gly Tyr Asp Glu Lys Ser Thr Gly Gly Ile Ser
 77 165 170 175
 79 Val Pro Gly Pro Met Gly Pro Ser Gly Pro Arg Gly Leu Pro Gly Pro

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80          180          185          190
83 Pro Gly Ala Pro Gly Pro Gln Gly Phe Gln Gly Pro Pro Gly Glu Pro
84          195          200          205
87 Gly Glu Pro Gly Ala Ser Gly Pro Met Gly Pro Arg Gly Pro Pro Gly
88          210          215          220
91 Pro Pro Gly Lys Asn Gly Asp Asp Gly Glu Ala Gly Lys Pro Gly Arg
92 225          230          235          240
95 Pro Gly Glu Arg Gly Pro Pro Gly Pro Gln Gly Ala Arg Gly Leu Pro
96          245          250          255
99 Gly Thr Ala Gly Leu Pro Gly Met Lys Gly His Arg Gly Phe Ser Gly
100          260          265          270
103 Leu Asp Gly Ala Lys Gly Asp Ala Gly Pro Ala Gly Pro Lys Gly Glu
104          275          280          285
107 Pro Gly Ser Pro Gly Glu Asn Gly Ala Pro Gly Gln Met Gly Pro Arg
108          290          295          300
111 Gly Leu Pro Gly Glu Arg Gly Arg Pro Gly Ala Pro Gly Pro Ala Gly
112 305          310          315          320
115 Ala Arg Gly Asn Asp Gly Ala Thr Gly Ala Ala Gly Pro Pro Gly Pro
116          325          330          335
119 Thr Gly Pro Ala Gly Pro Pro Gly Phe Pro Gly Ala Val Gly Ala Lys
120          340          345          350
123 Gly Glu Ala Gly Pro Gln Gly Pro Arg Gly Ser Glu Gly Pro Gln Gly
124          355          360          365
127 Val Arg Gly Glu Pro Gly Pro Pro Gly Pro Ala Gly Ala Ala Gly Pro
128          370          375          380
131 Ala Gly Asn Pro Gly Ala Asp Gly Gln Pro Gly Ala Lys Gly Ala Asn
132 385          390          395          400
135 Gly Ala Pro Gly Ile Ala Gly Ala Pro Gly Phe Pro Gly Ala Arg Gly
136          405          410          415
139 Pro Ser Gly Pro Gln Gly Pro Gly Gly Pro Pro Gly Pro Lys Gly Asn
140          420          425          430
144 Ser Gly Glu Pro Gly Ala Pro Gly Ser Lys Gly Asp Thr Gly Ala Lys
145          435          440          445
148 Gly Glu Pro Gly Pro Val Gly Val Gln Gly Pro Pro Gly Pro Ala Gly
149          450          455          460
152 Glu Glu Gly Lys Arg Gly Ala Arg Gly Glu Pro Gly Pro Thr Gly Leu
153 465          470          475          480
156 Pro Gly Pro Pro Gly Glu Arg Gly Gly Pro Gly Ser Arg Gly Phe Pro
157          485          490          495
160 Gly Ala Asp Gly Val Ala Gly Pro Lys Gly Pro Ala Gly Glu Arg Gly
161          500          505          510
164 Ser Pro Gly Pro Ala Gly Pro Lys Gly Ser Pro Gly Glu Ala Gly Arg
165          515          520          525
168 Pro Gly Glu Ala Gly Leu Pro Gly Ala Lys Gly Leu Thr Gly Ser Pro
169          530          535          540
172 Gly Ser Pro Gly Pro Asp Gly Lys Thr Gly Pro Pro Gly Pro Ala Gly
173 545          550          555          560
176 Gln Asp Gly Arg Pro Gly Pro Pro Gly Pro Pro Gly Ala Arg Gly Gln
177          565          570          575

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180 Ala Gly Val Met Gly Phe Pro Gly Pro Lys Gly Ala Ala Gly Glu Pro
181      580      585      590
184 Gly Lys Ala Gly Glu Arg Gly Val Pro Gly Pro Pro Gly Ala Val Gly
185      595      600      605
188 Pro Ala Gly Lys Asp Gly Glu Ala Gly Ala Gln Gly Pro Pro Gly Pro
189      610      615      620
192 Ala Gly Pro Ala Gly Glu Arg Gly Glu Gln Gly Pro Ala Gly Ser Pro
193 625      630      635      640
196 Gly Phe Gln Gly Leu Pro Gly Pro Ala Gly Pro Pro Gly Glu Ala Gly
197      645      650      655
200 Lys Pro Gly Glu Gln Gly Val Pro Gly Asp Leu Gly Ala Pro Gly Pro
201      660      665      670
204 Ser Gly Ala Arg Gly Glu Arg Gly Phe Pro Gly Glu Arg Gly Val Gln
205      675      680      685
209 Gly Pro Pro Gly Pro Ala Gly Pro Arg Gly Ala Asn Gly Ala Pro Gly
210      690      695      700
213 Asn Asp Gly Ala Lys Gly Asp Ala Gly Ala Pro Gly Ala Pro Gly Ser
214 705      710      715      720
217 Gln Gly Ala Pro Gly Leu Gln Gly Met Pro Gly Glu Arg Gly Ala Ala
218      725      730      735
221 Gly Leu Pro Gly Pro Lys Gly Asp Arg Gly Asp Ala Gly Pro Lys Gly
222      740      745      750
225 Ala Asp Gly Ser Pro Gly Lys Asp Gly Val Arg Gly Leu Thr Gly Pro
226      755      760      765
229 Ile Gly Pro Pro Gly Pro Ala Gly Ala Pro Gly Asp Lys Gly Glu Ser
230      770      775      780
233 Gly Pro Ser Gly Pro Ala Gly Pro Thr Gly Ala Arg Gly Ala Pro Gly
234 785      790      795      800
237 Asp Arg Gly Glu Pro Gly Pro Pro Gly Pro Ala Gly Phe Ala Gly Pro
238      805      810      815
241 Pro Gly Ala Asp Gly Gln Pro Gly Ala Lys Gly Glu Pro Gly Asp Ala
242      820      825      830
245 Gly Ala Lys Gly Asp Ala Gly Pro Pro Gly Pro Ala Gly Pro Ala Gly
246      835      840      845
249 Pro Pro Gly Pro Ile Gly Asn Val Gly Ala Pro Gly Ala Lys Gly Ala
250      850      855      860
253 Arg Gly Ser Ala Gly Pro Pro Gly Ala Thr Gly Phe Pro Gly Ala Ala
254 865      870      875      880
257 Gly Arg Val Gly Pro Pro Gly Pro Ser Gly Asn Ala Gly Pro Pro Gly
258      885      890      895
261 Pro Pro Gly Pro Ala Gly Lys Glu Gly Gly Lys Gly Pro Arg Gly Glu
262      900      905      910
265 Thr Gly Pro Ala Gly Arg Pro Gly Glu Val Gly Pro Pro Gly Pro Pro
266      915      920      925
269 Gly Pro Ala Gly Glu Lys Gly Ser Pro Gly Ala Asp Gly Pro Ala Gly
270      930      935      940
274 Ala Pro Gly Thr Pro Gly Pro Gln Gly Ile Ala Gly Gln Arg Gly Val
275 945      950      955      960
278 Val Gly Leu Pro Gly Gln Arg Gly Glu Arg Gly Phe Pro Gly Leu Pro

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279				965				970				975				
282	Gly	Pro	Ser	Gly	Glu	Pro	Gly	Lys	Gln	Gly	Pro	Ser	Gly	Ala	Ser	Gly
283				980				985				990				
286	Glu	Arg	Gly	Pro	Pro	Gly	Pro	Met	Gly	Pro	Pro	Gly	Leu	Ala	Gly	Pro
287				995				1000				1005				
290	Pro	Gly	Glu	Ser	Gly	Arg	Glu	Gly	Ala	Pro	Gly	Ala	Glu	Gly	Ser	
291		1010						1015				1020				
294	Pro	Gly	Arg	Asp	Gly	Ser	Pro	Gly	Ala	Lys	Gly	Asp	Arg	Gly	Glu	
295		1025						1030				1035				
298	Thr	Gly	Pro	Ala	Gly	Pro	Pro	Gly	Ala	Pro	Gly	Ala	Pro	Gly	Ala	
299		1040						1045				1050				
302	Pro	Gly	Pro	Val	Gly	Pro	Ala	Gly	Lys	Ser	Gly	Asp	Arg	Gly	Glu	
303		1055						1060				1065				
306	Thr	Gly	Pro	Ala	Gly	Pro	Ala	Gly	Pro	Val	Gly	Pro	Ala	Gly	Ala	
307		1070						1075				1080				
310	Arg	Gly	Pro	Ala	Gly	Pro	Gln	Gly	Pro	Arg	Gly	Asp	Lys	Gly	Glu	
311		1085						1090				1095				
314	Thr	Gly	Glu	Gln	Gly	Asp	Arg	Gly	Ile	Lys	Gly	His	Arg	Gly	Phe	
315		1100						1105				1110				
318	Ser	Gly	Leu	Gln	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Ser	Pro	Gly	Glu	
319		1115						1120				1125				
322	Gln	Gly	Pro	Ser	Gly	Ala	Ser	Gly	Pro	Ala	Gly	Pro	Arg	Gly	Pro	
323		1130						1135				1140				
326	Pro	Gly	Ser	Ala	Gly	Ala	Pro	Gly	Lys	Asp	Gly	Leu	Asn	Gly	Leu	
327		1145						1150				1155				
330	Pro	Gly	Pro	Ile	Gly	Pro	Pro	Gly	Pro	Arg	Gly	Arg	Thr	Gly	Asp	
331		1160						1165				1170				
334	Ala	Gly	Pro	Val	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Pro	Pro	Gly	Pro	
335		1175						1180				1185				
339	Pro	Gly	Pro	Pro	Ser	Ala	Gly	Phe	Asp	Phe	Ser	Phe	Leu	Pro	Gln	
340		1190						1195				1200				
343	Pro	Pro	Gln	Glu	Lys	Ala	His	Asp	Gly	Gly	Arg	Tyr	Tyr	Arg	Ala	
344		1205						1210				1215				
347	Asp	Asp	Ala	Asn	Val	Val	Arg	Asp	Arg	Asp	Leu	Glu	Val	Asp	Thr	
348		1220						1225				1230				
351	Thr	Leu	Lys	Ser	Leu	Ser	Gln	Gln	Ile	Glu	Asn	Ile	Arg	Ser	Pro	
352		1235						1240				1245				
355	Glu	Gly	Ser	Arg	Lys	Asn	Pro	Ala	Arg	Thr	Cys	Arg	Asp	Leu	Lys	
356		1250						1255				1260				
359	Met	Cys	His	Ser	Asp	Trp	Lys	Ser	Gly	Glu	Tyr	Trp	Ile	Asp	Pro	
360		1265						1270				1275				
363	Asn	Gln	Gly	Cys	Asn	Leu	Asp	Ala	Ile	Lys	Val	Phe	Cys	Asn	Met	
364		1280						1285				1290				
367	Glu	Thr	Gly	Glu	Thr	Cys	Val	Tyr	Pro	Thr	Gln	Pro	Ser	Val	Ala	
368		1295						1300				1305				
371	Gln	Lys	Asn	Trp	Tyr	Ile	Ser	Lys	Asn	Pro	Lys	Asp	Lys	Arg	His	
372		1310						1315				1320				
375	Val	Trp	Phe	Gly	Glu	Ser	Met	Thr	Asp	Gly	Phe	Gln	Phe	Glu	Tyr	
376		1325						1330				1335				

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379 Gly Gly  Gln Gly Ser Asp Pro  Ala Asp Val Ala Ile  Gln Leu Thr
380      1340                1345                1350
383 Phe Leu  Arg Leu Met Ser Thr  Glu Ala Ser Gln Asn  Ile Thr Tyr
384      1355                1360                1365
387 His Cys  Lys Asn Ser Val Ala  Tyr Met Asp Gln Gln  Thr Gly Asn
388      1370                1375                1380
391 Leu Lys  Lys Ala Leu Leu Leu  Lys Gly Ser Asn Glu  Ile Glu Ile
392      1385                1390                1395
395 Arg Ala  Glu Gly Asn Ser Arg  Phe Thr Tyr Ser Val  Thr Val Asp
396      1400                1405                1410
399 Gly Cys  Thr Ser His Thr Gly  Ala Trp Gly Lys Thr  Val Ile Glu
400      1415                1420                1425
404 Tyr Lys  Thr Thr Lys Thr Ser  Arg Leu Pro Ile Ile  Asp Val Ala
405      1430                1435                1440
408 Pro Leu  Asp Val Gly Ala Pro  Asp Gln Glu Phe Gly  Phe Asp Val
409      1445                1450                1455
412 Gly Pro  Val Cys Phe Leu
413      1460
416 <210> SEQ ID NO: 2
417 <211> LENGTH: 54
418 <212> TYPE: PRT
419 <213> ORGANISM: unknown
421 <220> FEATURE:
422 <223> OTHER INFORMATION: selected gelatin-like peptide with high Tg
424 <400> SEQUENCE: 2
426 Gly Asp Arg Gly Glu Thr Gly Pro Ala Gly Pro Pro Gly Ala Pro Gly
427 1      5      10      15
430 Ala Pro Gly Ala Pro Gly Pro Val Gly Pro Ala Gly Lys Ser Gly Asp
431      20      25      30
434 Arg Gly Glu Thr Gly Pro Ala Gly Pro Ala Gly Pro Val Gly Pro Ala
435      35      40      45
438 Gly Ala Arg Gly Pro Ala
439      50

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VERIFICATION SUMMARY

DATE: 09/27/2006

PATENT APPLICATION: US/10/566,878

TIME: 14:36:41

Input Set : A:\Sequence Listing of 10_566_878.txt

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L:13 M:271 C: Current Filing Date differs, Replaced Current Filing Date